

Delmation Products BV  
 Wattstraat 28m  
 2723 RC Zoetermeer  
 Tel: 079-3422041  
 Fax: 079-3424461

Website: [www.delmation.nl](http://www.delmation.nl)  
 E-mail: [info@delmation.nl](mailto:info@delmation.nl)

Product Name:	Handyport Wireless RS-232 Transceiver
Product Model:	HP-120
Company:	HandyWave
Post Date	September 30, 2003
Specification	This wireless RS-232 transceiver provides the most economic and efficient way of cable replacement for the serial (RS-232) communication system.
Features	<ul style="list-style-type: none"> <li>- 2.4GHz Frequency Hopping Spread Spectrum</li> <li>- D-sub 9P Female Connector</li> <li>- Max 20dBm (100mW) Output Power</li> <li>- Typical -80dBm Receive Sensitivity</li> <li>- 1.2 ~ 115.2Kbps scalable Baudrates</li> <li>- 2 LEDs for Status Indication (Operation, Link)</li> <li>- Reset Button for Factory Setting Recovery &amp; User Reconfiguration</li> <li>- SMA Interface for External Antenna (Dipole or Patch)</li> <li>- DC Jack for External Power Feeding(+5 ~ 12V)</li> <li>- User Reconfigurable locally and remotely (over the air)</li> <li>- No extra Software needed</li> <li>- CE certified (Registration Number : G5M203060109-C)</li> </ul>
Application Areas	<ul style="list-style-type: none"> <li>- POS System</li> <li>- Display Panel</li> <li>- Car Diagnostics</li> <li>- Access Control Unit</li> <li>- Medical Instruments</li> <li>- Industrial Automation</li> <li>- Measuring Equipments</li> <li>- Monitoring &amp; Control System</li> </ul>





### **Characteristics**

- ▶ Full duplex transparent RS-232 emulation
- ▶ Low cost
- ▶ Small form factor
- ▶ License free (2.4GHz ISM band)
- ▶ High data rates (115kbps default, 230/460Kbps optional)
- ▶ Enhanced security (max 128bit data encryption)
- ▶ Inherent noise immunity (frequency hopping spread spectrum)
- ▶ Plug and play (no extra software needed)
- ▶ Point-to-multipoint capability
- ▶ User configurable (using AT commands on the PC)
- ▶ User programmable (using on-line commands)
- ▶ Low power consumption (fitted with handheld devices)
- ▶ Service range expandable (using higher gain external antenna)

### **Specifications**

- ▶ Standard : Bluetooth v1.1 compatible
- ▶ Radio Frequency : 2.402 ~ 2.480GHz
- ▶ Bandwidth : 1Mbps
- ▶ Output Power : max +20dBm(100mW)
- ▶ Rx Sensitivity : -84dBm
- ▶ Frequency Hopping : 1,600times/sec
- ▶ Baud Rates : 1.2 ~ 115.2Kbps
- ▶ Coverage : 100 ~ 1,000m (open sight)
- ▶ Temperature Range : -20 ~ 75°C

## Product Line-up

Product	Serial Adapter			USB Adapter
Model No.	HPS-120	HPS-200	HPS-110	HPU-120
Image				
Interface	DB-9F RS-232	RS232 RS485 RS422	4P RS-232	USB 1.1
Usage	Single Point Device			Multi Point Device
Antenna	External SMA	External SMA	External SMA	External SMA
Dimension (mm)	65x35x16	52,5x86x58	58x33x11	65x35x16
Power Supply	5 ~ 12V Connector DC Jack	5 ~ 30V Schroefklemmen	3.3 ~ 16V Connector	5V Connector

### Toebehoren:

PC-120: Power cord: hiermee kan de HPS120 worden gevoed vanuit een USB-poort



AD-120: Power adapter: tbv het voeden van de HPS120 vanuit 230VAC



HPC-110: Kabel SMA Male naar SMA male 1m

HPC-130: Kabel SMA Male naar SMA male 3m

HPC-500: Kastdoorvoer SMA female naar female (te combineren met HPC-110 of HPC-130)

HPA-100: antenne 2dBi

HPA-110: antenne 4dBi met knik mogelijkheid

HPA-200: richtantenne 8,5dBi (bereik tot 500m bij vrij zicht)

ANT120: magneetvoetantenne



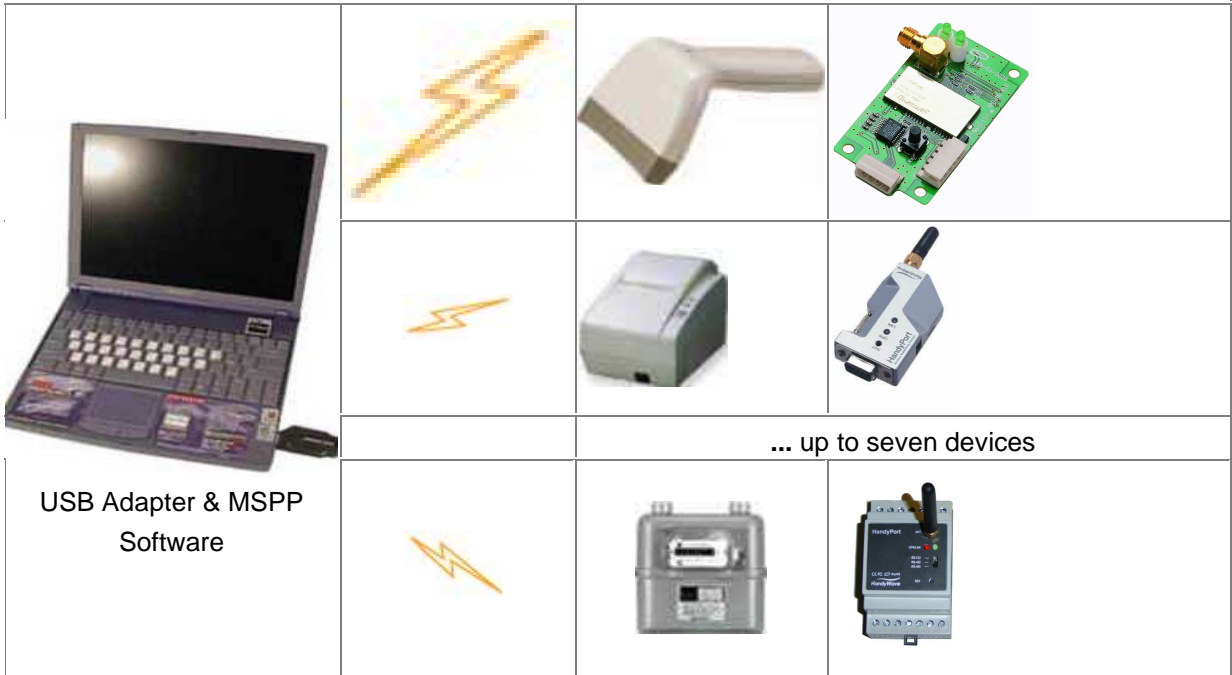
## Topology

### ✔ Point-to-Point



## Point-to-Multipoint

### ► Simultaneous Operation



### ► Polling Operation

